## THREE NEW CUMACEA from SOUTH AUSTRALIA

By Hifrert M. Halif, Director, Soumif Austrafian Museum.

Fig. 1-6.
Two of the species described below were collected by Mr. B. C. C'nttom from stomes dredged in shallow water. The third was taken by Mr. W. H. Baker a long time ago.

## Family BODOTRIIDAE

## Cyolaspis (: O. Sars.

Cyclaspis caprelia sp). nov.
Arlult mate. Thtegrment not highly indurated. Carapace more than onefonth total longth, and with greatest width only abont one-half its tength and equal to its height; dorsum with a rather feeble mediam Iongitudinal ridge, and


with a pair of shallow and inconspionous depressions in front of the midde of length; antemal notch distinct, and antennal angle subacnte; inferior margin on cach side procluced forwards anteriorly to form an acute inwatly enved horn. which reaches a lithle beyond the level of the ombar lobe. Prendorostial lobes not (pute reaching apex of the prominent ocular lobe, which bears a mumber of lonses, amd is pigmented.


 dutall dorsal tubercles.

All pleon somites with a faint median dos sal ridge: on the first somite the



 latwal margins of plem.




Basis of thided maxillipeds swadedy hent, and wioh apiont process reaching




 thath third to fifth pairs. with hasis ahmest as toma as the five teminal jomint tor gether, and with isehimm distinet.
 as long again as telsonic somite, with a row of bather long setare. Whath diminish




('olome pale brown.

 No. (. 2044.





 fintuspos.

## Symbormana Nohbiner.




 separrated.




1. Dotsal earima of (adrap atce with one dorsial tonth. Itinst joint of emdopod of wroporatameh lomgel than secomel. Datetylus of semond perapopod slemer, longro thath morns and carpans logether
atstralionsis
 smatl spines. First joint of emdopod of mopota sul)-



## STMPODOMMA GAKERT :p. Hov.


 shoter than the five pedigeroms somites togedher, and less than one-fomm the
 situated at ome-fombth of the lemeth from the and of the nembar lobe the last at the mikde of the kength. Oentar lobe narmew, subtriangalar, extending bevond

 with anterion edges armulate. Antemnal noteh very narrow but rather derp, and autemal angle rommded and eremblate.

First pediperons somite widened dorsally and inferiorly, its shom laterat areas
 produced.


 ( $\times 71$ ).

Plem smmites smooth; first to fifll sumeessively inereasing in lemeth, with
 produced between hases of mopoda.

First antemate with first goint of pedurde stont, widened basally, neanly wice as loug as the semond, and much longer than the thiod flagethum two-ginted, and temmatime in a pain of joint sedar; acessom? flagellum shont but two-jomed.

Basis of third maxillipeds gently emved, much more than wice as lomp as the palp, and with prodneed distal portion seakhing beyoul distal margin ot
 chasive of long termimal spines) a little shorter. First peratopods extemting well

hase, and shoter than the remaming joints together: merus with a shom stout

 louger han merns and a litite shomer than datylus: proporlus short, barely half as long as merms. Basis of thind pair somewhat shomer than erest of limb, that of fourth one-hati as long as remaning joints (including clatw of dactylus). and that of thind less than half as long as rest of limb: arpus of last thee peracopods longer than merls and propoches; dactyhs short.

 - 6 b g, first to fifth peraeoporls; h, uropods $(\times 25)$.

Pedmele of mopots nearly as tong as filth plem somite, and one-and-three-
 with more than a dozen spines; exopod with first joint rather more than hatf as Iong ins second, its apex with several long spines, but imer margin with a few setae only; endoporl with the 1 wo jointa smbequal in length, the inner margins of each armed with abont ten spines of different lengthe, and apex with slomder spines.

Colom brown, barked wibla dak beown stellate spots.
Lengeth 10 mm .

Lorr. South Anstralia: Gull St. V'incent (IV. II. Baker, 1:310). Tivere in



 lijureses, cte.






## fiamily diastylidae:













 langolvas, which is but piommbled.

 pedigerons somite oxeranpping that of second and fourth.











 ally, will phamose setale on outer ellye and apex : ischimm shorder than merns.


 (天 ( $\times$ ) 。

 the apical expansion reaching folled of and of merns; isehima very shorl, and


 of fonth peracoper with distal expansion shonter than in oflare ; pest of limb





endoport two and a half times as long as second and thim joints together, and with deven margital spines; third longer than second, and slightly shorter than terminal spine: secoul and thitd semments each with one spine at imore apical angle; hasal joint of exopod onc-fometh of the leneth of second, which is one-fonthe as lony again as terminal spine.

Colour white.
Length 5 mm .
Lor. South Anstralia: Gulf St. Vinceut, : miles of Semaphore, botton dredge, 5-7 Eath. (B. C. Coltom, Nov., 19:1). Type in Sonth Anstralian Museum. Rey. No. C. 2042.





A mate $3 \cdot 8 \mathrm{~mm}$. in length was taken at the same time. In this the abmence of pleoporls and the state of derelopment of the exopods of the lege indicate inma-
 only about hall as long as the first, which is lomger than the thitrd; the aceessory flasellum is small and two.jointed, the outer there-jointed, the last segment minte. The telson has a pair of apical spines, hut onls one spine on arth tathal margin near the apex. The mopols are relatively shorter than in the adult, the perduncle
being only one and one-half times as long as the sixth pleon somitc, and barely tonger than the endopod, instead of nearly half as long again; the proportions of the joints of the emdopod are different, being $38: 11: 12$, and the terminal spine 13. The peanncte of the uropods is armed with only eight marginal spines, the first segment of the endopod with five, and the second and third segments with one each.

The male of $D$. coltoni resembles the male of the genotype, from Japan, much mote closely than does the Qucensland D. uustrolis Foxon (1932, p. 390, fig. 7-8). The antemae, uropoda, and general facies are quite similar, but in the south Australian form there is an additional, oblique, lateral ridqe on the carapace, only one ocular lens instead of three, and no lateral flaps on the telson which has only two apical spines; further, the fifth pleon somite is apparently less elongate in II. usiaticu (Zimmer 1921, p. 144, fig. 47-55).

## REFERENCES.

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Zimmer, C. (1921) : Mitt. Zool. Mus., Berlin, x.

